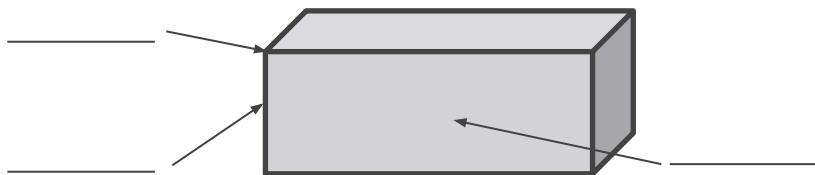Maths

Faces, Edges and Vertices

Mr Bond

Faces, edges and vertices

1. Fill in the blanks below.

a) The flat surfaces of 3D shapes are called _____ .

b) A line segment, joining two vertices of a 3D shape is called an _____ .

c) The corners of a 3D shape where two or more line segments meet are called _____ .

2. a) Complete the table below.

	Number of faces	Number of vertices	Number of edges
Cube			
Triangular based pyramid			
Square-based pyramid			
Triangular prism			

b) Can you find a rule to find the number of edges from the number of faces and vertices?
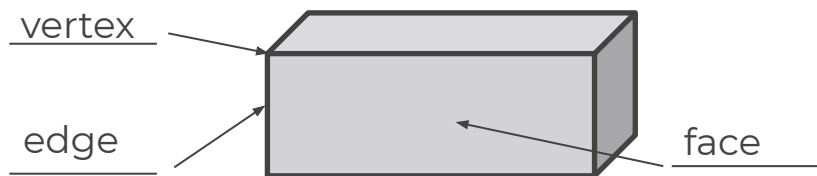
Answers

Faces, edges and vertices

1. Fill in the blanks below.

a) The flat surfaces of 3D shapes are called __faces__ .

b) A line segment, joining two vertices of a 3D shape is called an __edge__ .

c) The corners of a 3D shape where two or more line segments meet are called __vertices__ .

__vertex__

__edge__

__face__

2. a) Complete the table below.

	Number of faces	Number of vertices	Number of edges
Cube	6	8	12
Triangular based-pyramid	4	4	6
Square-based pyramid	5	5	8
Triangular prism	5	6	9

b) Can you find a rule to find the number of edges from the number of faces and vertices? Number of edges = number of faces + number of vertices - 2